

Proc Report And Ods Lex Jansen

A thorough presentation of analytical methods for characterizing soil chemical properties and processes, Methods, Part 3 includes chapters on Fourier transform infrared, Raman, electron spin resonance, x-ray photoelectron, and x-ray absorption fine structure spectroscopies, and more.

TRB Special Report 254 - Managing Speed: Review of Current Practices for Setting and Enforcing Speed Limits reviews practices for setting and enforcing speed limits on all types of roads and provides guidance to state and local governments on appropriate methods of setting speed limits and related enforcement strategies. Following an executive summary, the report is presented in six chapters and five appendices.

Are you a programmer, statistician, or data analyst tasked with generating reports? Discover how you can put the powerful FORMAT procedure to work for you with The Power of PROC FORMAT. Written in an easy-to-follow tutorial style and illustrated with real-world examples and solutions, this handy guide introduces beginning to intermediate SAS users to the functionality of the FORMAT procedure. Learn how the FORMAT procedure can recategorize data values while doing a variety of tasks, including building user-defined formats and informats, implementing a table lookup in SAS, using the DATA

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step and other SAS procedures, assigning descriptive labels to data values, creating new variables and finding unexpected values, generating data extracts, and merging data sets.

This straightforward guide to PROC TEMPLATE shows you how to build your own custom styles and tables in SAS. You'll learn how to create new styles to match your organization's standards or simply to increase your report's aesthetic potential build custom tables with complex structures and traffic lighting to make them easier to read and interpret manage your templates and share them with other SAS users Written for all levels of users, PROC TEMPLATE Made Easy guides you through the process of writing templates. Beginners will benefit from learning how to do so from the ground up.

Intermediate and advanced users will learn the more complex features of PROC TEMPLATE as well as how to use styles in the Base SAS reporting procedures. This book explains how PROC TEMPLATE saves templates and teaches you how to create shareable template stores, allowing you to customize your working environment. The visual appendixes of all style attributes and graph colors serve as an essent

Foreword. A transformed scientific method. Earth and environment. Health and wellbeing. Scientific infrastructure. Scholarly communication.

This real-world reference for clinical trial SAS

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programming is packed with solutions that can be applied day-to-day problems. Organized to reflect the statistical programmers workflow, this user-friendly text begins with an introduction to the working environment, then presents chapters on importing and massaging data into analysis data sets, producing clinical trial output, and exporting data.

A supplemental textbook for middle and high school students, *Hoosiers and the American Story* provides intimate views of individuals and places in Indiana set within themes from American history. During the frontier days when Americans battled with and exiled native peoples from the East, Indiana was on the leading edge of America's westward expansion. As waves of immigrants swept across the Appalachians and eastern waterways, Indiana became established as both a crossroads and as a vital part of Middle America. Indiana's stories illuminate the history of American agriculture, wars, industrialization, ethnic conflicts, technological improvements, political battles, transportation networks, economic shifts, social welfare initiatives, and more. In so doing, they elucidate large national issues so that students can relate personally to the ideas and events that comprise American history. At the same time, the stories shed light on what it means to be a Hoosier, today and in the past.

Demonstrates Microsoft Excel 2002's updated

features while reviewing such Excel basics as calculating formulas and functions, analyzing data, customizing worksheets, and sharing data.

Contains the complete reference for all Base SAS procedures. Provides information about what each procedure does and, if relevant, the kind of output that it produces. This title is also available online. SAS Products and Releases: Base SAS: 9.3_M2. Operating Systems: All

The Universal Soil Loss Equation (USLE) enables planners to predict the average rate of soil erosion for each feasible alternative combination of crop system and management practices in association with a specified soil type, rainfall pattern, and topography. When these predicted losses are compared with given soil loss tolerances, they provide specific guidelines for effecting erosion control within specified limits. The equation groups the numerous interrelated physical and management parameters that influence erosion rate under six major factors whose site-specific values can be expressed numerically. A half century of erosion research in many States has supplied information from which at least approximate values of the USLE factors can be obtained for specified farm fields or other small erosion prone areas throughout the United States. Tables and charts presented in this handbook make this information readily available for field use. Significant limitations in the available data

are identified.

The WHO World report on ageing and health is not for the book shelf it is a living breathing testament to all older people who have fought for their voice to be heard at all levels of government across disciplines and sectors. - Mr Bjarne Hastrup President International Federation on Ageing and CEO DaneAge This report outlines a framework for action to foster Healthy Ageing built around the new concept of functional ability. This will require a transformation of health systems away from disease based curative models and towards the provision of older-person-centred and integrated care. It will require the development sometimes from nothing of comprehensive systems of long term care. It will require a coordinated response from many other sectors and multiple levels of government. And it will need to draw on better ways of measuring and monitoring the health and functioning of older populations. These actions are likely to be a sound investment in society's future. A future that gives older people the freedom to live lives that previous generations might never have imagined. The World report on ageing and health responds to these challenges by recommending equally profound changes in the way health policies for ageing populations are formulated and services are provided. As the foundation for its recommendations the report looks at what the latest evidence has to

say about the ageing process noting that many common perceptions and assumptions about older people are based on outdated stereotypes. The report's recommendations are anchored in the evidence comprehensive and forward-looking yet eminently practical. Throughout examples of experiences from different countries are used to illustrate how specific problems can be addressed through innovation solutions. Topics explored range from strategies to deliver comprehensive and person-centred services to older populations to policies that enable older people to live in comfort and safety to ways to correct the problems and injustices inherent in current systems for long-term care.

Making complex methods more accessible to applied researchers without an advanced mathematical background, the authors present the essence of new techniques available, as well as classical techniques, and apply them to data. Practical suggestions for implementing the various methods are set off in a series of practical notes at the end of each section, while technical details of the derivation of the techniques are sketched in the technical notes. This book will thus be useful for investigators who need to analyse censored or truncated life time data, and as a textbook for a graduate course in survival analysis, the only prerequisite being a standard course in statistical methodology.

PROC DOCUMENT by Example Using SAS

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demonstrates the practical uses of the DOCUMENT procedure, a part of the Output Delivery System, in SAS 9.3. Michael Tuchman explains how to work with PROC DOCUMENT, which is designed to store your SAS procedure output for replay at a later time without having to rerun your original SAS code.

You'll learn how to: save a collection of procedure output, descriptive text, and supporting graphs that can be replayed as a single unit save output once and distribute that same output in a variety of ODS formats such as HTML, CSV, and PDF create custom reports by comparing output from the same procedure run at different points in time create a table of contents for your output modify the appearance of both textual and graphical ODS output even if the original data is no longer available or easily accessible manage your tabular and graphical output by using descriptive labels, titles, and footnotes rearrange the original order of output in a procedure to suit your needs After using this book, you'll be able to quickly and easily create libraries of professional-looking output that are accessible at any time. This book is part of the SAS Press program.

Reviews the circumstances surrounding the Challenger accident to establish the probable cause or causes of the accident. Develops recommendations for corrective or other action based upon the Commission's findings and

determinations. Color photos, charts and tables. Make the most of your SAS output! Learn how to generate procedure output that you can view with a Web browser or that takes advantage of a high resolution PostScript printer; turn the output of a procedure into a SAS data set; change the presentation of a procedure's results to suit your own needs; and change the colors and fonts that SAS uses in HTML and printer output. This book teaches you how to do these things and more with the results of SAS procedures and of DATA step programs. New users can quickly learn the basics of ODS from the text or by copying and modifying the examples. More experienced users can delve into the complexities of PROC TEMPLATE to produce a truly original look for their SAS output. This title is available for purchase as a hardcopy book or e-book, or in the SAS OnlineDoc CD-ROM with PDF files. The HTML version of the SAS OnlineDoc CD-ROM is shipped free with Version 8.

The SAS Programmer's PROC REPORT Handbook: Basic to Advanced Reporting Techniques is intended for programmers of all skill levels. Learn how to link multiple reports, add graphics and logos, and manipulate table of contents values to help refine your programs, macroize where possible, troubleshoot easily, and get great-looking reports every time. From beginner to advanced, the examples in this book will help you harness all the

power and capability of PROC REPORT. With dozens of useful examples, this book is completely unique in three ways. First, this book describes the default behavior of table of contents nodes and labels, and how to change the nodes inside of PROC REPORT. The chapter also explains how to use PROC DOCUMENT in conjunction with PROC REPORT. Secondly, an entire chapter is dedicated to the troubleshooting of errors, warnings, and notes that are produced by PROC REPORT, including explanations of what generated the log message and how to avoid it. Third, the book explains how to preprocess your data in order to get the best output from PROC REPORT, and it explores reports that require multiple steps to create. Whether you work in banking/finance, pharmaceuticals, the health and life sciences, or government, this handbook is sure to be your new favorite reporting reference.

Modern Data Analysis contains the proceedings of a Workshop on Modern Data Analysis held in Raleigh, North Carolina, on June 2-4, 1980 under the auspices of the United States Army Research Office. The papers review theories and methods of data analysis and cover topics ranging from single and multiple quantile-quantile (Q-Q) plotting procedures to biplot display and pencil-and-paper exploratory data analysis methods. Projection pursuit methods for data analysis are also discussed. Comprised of nine chapters, this book begins with an introduction

to styles of data analysis techniques, followed by an analysis of single and multiple Q-Q plotting procedures. Problems involving extreme-value data and the behavior of sample averages are considered. Subsequent chapters deal with the use of smelting in guiding re-expression; geometric data analysis; and influence functions and regression diagnostics. The final chapter examines the use and interpretation of robust analysis of variance for the general non-full-rank linear model. The procedures are described in terms of their mathematical structure, which leads to efficient computational algorithms. This monograph should be of interest to mathematicians and statisticians.

An Up-to-Date, All-in-One Resource for Using SAS and R to Perform Frequent Tasks The first edition of this popular guide provided a path between SAS and R using an easy-to-understand, dictionary-like approach. Retaining the same accessible format, SAS and R: Data Management, Statistical Analysis, and Graphics, Second Edition explains how to easily perform an analytical task in both SAS and R, without having to navigate through the extensive, idiosyncratic, and sometimes unwieldy software documentation. The book covers many common tasks, such as data management, descriptive summaries, inferential procedures, regression analysis, and graphics, along with more complex applications. New to the Second Edition This edition

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now covers RStudio, a powerful and easy-to-use interface for R. It incorporates a number of additional topics, including using application program interfaces (APIs), accessing data through database management systems, using reproducible analysis tools, and statistical analysis with Markov chain Monte Carlo (MCMC) methods and finite mixture models. It also includes extended examples of simulations and many new examples. Enables Easy Mobility between the Two Systems Through the extensive indexing and cross-referencing, users can directly find and implement the material they need. SAS users can look up tasks in the SAS index and then find the associated R code while R users can benefit from the R index in a similar manner.

Numerous example analyses demonstrate the code in action and facilitate further exploration. The datasets and code are available for download on the book's website.

Provides usage information and examples for Output Delivery System (ODS) capabilities. The document describes a wide range of formatting options and shows how to gain greater flexibility in generating, storing, and reproducing SAS procedure and DATA step output.

PROC SQL: Beyond the Basics Using SAS®, Third Edition, is a step-by-step, example-driven guide that helps readers master the language of PROC SQL. Packed with analysis and examples illustrating an

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assortment of PROC SQL options, statements, and clauses, this book not only covers all the basics, but it also offers extensive guidance on complex topics such as set operators and correlated subqueries.

Programmers at all levels will appreciate Kirk Lafler's easy-to-follow examples, clear explanations, and handy tips to extend their knowledge of PROC SQL. This third edition explores new and powerful features in SAS® 9.4, including topics such as: IFC and IFN functions nearest neighbor processing the HAVING clause indexes It also features two completely new chapters on fuzzy matching and data-driven programming. Delving into the workings of PROC SQL with greater analysis and discussion, PROC SQL: Beyond the Basics Using SAS®, Third Edition, explores this powerful database language using discussion and numerous real-world examples.

An abundance of real-world examples highlights Lauren Haworth's PROC TABULATE by Example. Beginning and intermediate SAS users will find this step-by-step guide to producing tables and reports using the TABULATE procedure both convenient and inviting. Applications are presented in a self-contained, two-page layout; discussion material and sample code are on one page, and the resulting tables are on the facing page. Topics are presented in order of increasing complexity, making this an excellent training manual or self-tutorial. The concise

format also makes this a quick reference guide for specific applications for more advanced users. A very handy section on common problems and their solutions is also included. With this book, you will quickly learn how to generate tables using macros, create tables using SAS/ASSIST software, present output on the Internet, handle percentages and missing data, modify row and column headings, and produce one-, two-, and three-dimensional tables using PROC TABULATE. Also provided are more advanced tips on complex formatting and exporting PROC TABULATE to other applications.

Art Carpenter demystifies the powerful REPORT procedure and shows you how to incorporate this highly flexible and customizable procedure into your SAS reporting programs. Combining his years of SAS experience with a talent for instruction, Art offers clear and comprehensive coverage that demonstrates how valuable this procedure is for both summarizing and displaying data. Illustrated with more than two hundred examples and sample exercises to reinforce your learning, Carpenter's Complete Guide to the SAS REPORT Procedure provides you with information that you can put to immediate use. The text is divided into three distinct sections. Part 1 introduces you to PROC REPORT, showing you how it works and "thinks." This section is designed to be read linearly by users who are unfamiliar with the procedure. Part 2 is a collection of

increasingly more complex examples that feature advanced options and capabilities. It also introduces the relationship between PROC REPORT and the Output Delivery System (ODS). Part 3 incorporates the options and statements described in Parts 1 and 2 into a series of examples that highlight many of the extended capabilities of PROC REPORT. Included in this section is a discussion of a few ODS statements and options that might be useful to a PROC REPORT programmer, plus an in-depth look at the PROC REPORT process itself, especially as it relates to the execution of compute blocks. Art's author page at support.sas.com/carpenter includes the following bonus material: example SAS data sets, example results, and a compilation of nearly 100 related conference papers. This book is part of the SAS Press program.

Genre studies and genre approaches to literacy instruction continue to develop in many regions and from a widening variety of approaches. Genre has provided a key to understanding the varying literacy cultures of regions, disciplines, professions, and educational settings. **GENRE IN A CHANGING WORLD** provides a wide-ranging sampler of the remarkable variety of current work. The twenty-four chapters in this volume, reflecting the work of scholars in Europe, Australasia, and North and South America, were selected from the over 400 presentations at SIGET IV (the Fourth International

Symposium on Genre Studies) held on the campus of UNISUL in Tubarão, Santa Catarina, Brazil in August 2007—the largest gathering on genre to that date. The chapters also represent a wide variety of approaches, including rhetoric, Systemic Functional Linguistics, media and critical cultural studies, sociology, phenomenology, enunciation theory, the Geneva school of educational sequences, cognitive psychology, relevance theory, sociocultural psychology, activity theory, Gestalt psychology, and schema theory. Sections are devoted to theoretical issues, studies of genres in the professions, studies of genre and media, teaching and learning genre, and writing across the curriculum. The broad selection of material in this volume displays the full range of contemporary genre studies and sets the ground for a next generation of work.

This is an IEEE classic reissue of the book published by John Wiley & Sons in 1974. This definitive text and reference covers all aspects of microwave mobile systems design. Encompassing ten years of advanced research in the field, it reviews basic microwave theory, explains how cellular systems work and presents useful techniques for effective systems development. Key features include: complete coverage of microwave propagation techniques to design successful cellular systems, extensive chapters covering the broad fundamentals of microwave usage in mobile radio propagation and

the functions of mobile radio antennas, comprehensive treatment of modulation methods, interference, noise, layout and control of high-capacity systems, and more! The return of this classic volume should be welcomed by all those seeking an authoritative and complete source of information on this emerging technology.

Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.

This comprehensive resource provides on-the-job training for statistical programmers who use SAS in the pharmaceutical industry This one-stop resource offers a complete review of what entry- to intermediate-level

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statistical programmers need to know in order to help with the analysis and reporting of clinical trial data in the pharmaceutical industry. *SAS Programming in the Pharmaceutical Industry, Second Edition* begins with an introduction to the pharmaceutical industry and the work environment of a statistical programmer. Then it gives a chronological explanation of what you need to know to do the job. It includes information on importing and massaging data into analysis data sets, producing clinical trial output, and exporting data. This edition has been updated for SAS 9.4, and it features new graphics as well as all new examples using CDISC SDTM or ADaM model data structures. Whether you're a novice seeking an introduction to SAS programming in the pharmaceutical industry or a junior-level programmer exploring new approaches to problem solving, this real-world reference guide offers a wealth of practical suggestions to help you sharpen your skills. This book is part of the SAS Press program.

Sanjay Matange and Dan Heath's *Statistical Graphics Procedures by Example: Effective Graphs Using SAS* shows the innumerable capabilities of SAS Statistical Graphics (SG) procedures. The authors begin with a general discussion of the principles of effective graphics, ODS Graphics, and the SG procedures. They then move on to show examples of the procedures' many features. The book is designed so that you can easily flip through it, find the graph you need, and view the code right next to the example. Among the topics included are how to combine plot statements to create custom graphs; customizing graph axes, legends, and insets; advanced

features, such as annotation and attribute maps; tips and tricks for creating the optimal graph for the intended usage; real-world examples from the health and life sciences domain; and ODS styles. The procedures in *Statistical Graphics Procedures by Example* are specifically designed for the creation of analytical graphs. That makes this book a must-read for analysts and statisticians in the health care, clinical trials, financial, and insurance industries. However, you will find that the examples here apply to all fields. This book is part of the SAS Press program.

This pioneering text provides a holistic approach to decisionmaking in transportation project development and programming, which can help transportation professionals to optimize their investment choices. The authors present a proven set of methodologies for evaluating transportation projects that ensures that all costs and impacts are taken into consideration. The text's logical organization gets readers started with a solid foundation in basic principles and then progressively builds on that foundation. Topics covered include: Developing performance measures for evaluation, estimating travel demand, and costing transportation projects Performing an economic efficiency evaluation that accounts for such factors as travel time, safety, and vehicle operating costs Evaluating a project's impact on economic development and land use as well as its impact on society and culture Assessing a project's environmental impact, including air quality, noise, ecology, water resources, and aesthetics Evaluating alternative projects on the basis of multiple performance

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criteria Programming transportation investments so that resources can be optimally allocated to meet facility-specific and system-wide goals. Each chapter begins with basic definitions and concepts followed by a methodology for impact assessment. Relevant legislation is discussed and available software for performing evaluations is presented. At the end of each chapter, readers are provided resources for detailed investigation of particular topics. These include Internet sites and publications of international and domestic agencies and research institutions. The authors also provide a companion Web site that offers updates, data for analysis, and case histories of project evaluation and decision making. Given that billions of dollars are spent each year on transportation systems in the United States alone, and that there is a need for thorough and rational evaluation and decision making for cost-effective system preservation and improvement, this text should be on the desks of all transportation planners, engineers, and educators. With exercises in every chapter, this text is an ideal coursebook for the subject of transportation systems analysis and evaluation.

. Renewal of Life by Transmission. The most notable distinction between living and inanimate things is that the former maintain themselves by renewal. A stone when struck resists. If its resistance is greater than the force of the blow struck, it remains outwardly unchanged. Otherwise, it is shattered into smaller bits. Never does the stone attempt to react in such a way that it may maintain itself against the blow, much less so as to render the blow a contributing factor to its own continued

action. While the living thing may easily be crushed by superior force, it none the less tries to turn the energies which act upon it into means of its own further existence. If it cannot do so, it does not just split into smaller pieces (at least in the higher forms of life), but loses its identity as a living thing. As long as it endures, it struggles to use surrounding energies in its own behalf. It uses light, air, moisture, and the material of soil. To say that it uses them is to say that it turns them into means of its own conservation. As long as it is growing, the energy it expends in thus turning the environment to account is more than compensated for by the return it gets: it grows. Understanding the word "control" in this sense, it may be said that a living being is one that subjugates and controls for its own continued activity the energies that would otherwise use it up. Life is a self-renewing process through action upon the environment.

Obesity is considered a complex and multifactorial disease. Its treatment, therefore, must also be multimodal and tailored to meet the needs of each patient. *Obesity: Evaluation and Treatment Essentials* presents a wide spectrum of practical treatment protocols for obesity including exercise, pharmacology, behavior modification, and dietary factors,

This book constitutes the thoroughly refereed proceedings of the 8th International Workshop on Computational Processing of the Portuguese Language, PROPOR 2012, held in Coimbra, Portugal in April 2012. The 24 revised full papers and 23 revised short papers presented were carefully reviewed and selected from 86 submissions. These papers cover the areas related to

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phonology, morphology and POS-Tagging, acquisition, language resources, linguistic description, syntax and parsing, semantics, opinion analysis, natural language processing applications, speech production and phonetics, speech resources, speech processing and applications.

Microsoft Excel remains the leading spreadsheet application on the market; nearly every SAS user will need to move their data and reports into Excel workbooks at some point during their career. Exchanging Data From SAS(R) to Excel: The ODS Excel Destination shows SAS users how to create Excel workbooks that are presentation ready, eliminating manual changes to the workbooks after creation. While the original book Exchanging Data between SAS and Microsoft Excel: Tips and Techniques to Transfer and Manage Data More Efficiently touched upon many topics involved in moving data between SAS and Excel, this companion book delves into the options that are available with the ODS Excel destination. This book also has numerous examples that include syntax and graphical output. With this book, you can learn how to: Create native Excel files Insert graphs and images into Excel files Place multiple tables on multiple tabs within the file Customize spreadsheets with workbook-level options, print features, column features, row features, and cell-level features Exchanging Data from SAS(R) to Excel: The ODS Excel Destination will make sending your output and graphics to Excel a breeze, enhancing any presentation! Incorporating broad coverage of the best ODS features in one book, this work goes beyond

Haworth's original ODS text to demonstrate the many new and enhanced features of ODS and SAS 9.2. It presents each of the wide array of ODS techniques in an easy-to-use, two-page layout. One of a series of three resource guides concerned with communication, control, and computer access for the disabled or the elderly, the book focuses on hardware and software. The guide's 13 chapters each cover products with the same primary function. Cross reference indexes allow access to listings of products by function, input/output feature, and computer model. Switches are listed separately by input/output features. Typically provided for each product are usually an illustration, the product name, vendor, size, weight, power source, connector type, cost, and a description. Part I, "Computer Adaptations," presents the following types of items: modifications for standard keyboards; alternate inputs usable with all software; input devices usable with only some software; input adapters for computers; alternate display systems usable with all software; Braille printers and tactile display components; speech synthesizers; and other software and hardware adaptations. Part II, "Application Software for Special Ed and Rehab," includes software for administration and management; assessment; education, training, and therapy; recreation; and personal tools or aids. Appendixes include a list of additional sources of

information, a glossary, addresses of manufacturers listed with their products, and an alphabetical listing of all products in the 3-book series. (DB)

Discover how to perform statistical analysis using the Analyst Application, a point-and-click interface to basic statistical analysis in SAS. The Analyst Application provides easy access to both statistical analyses and associated graphical tasks. This title includes step-by-step instructions for using the Analyst Application to perform tasks such as hypothesis tests, table analysis, ANOVA, regression, survival analysis, repeated measurements, mixed models, and basic power computations. In addition, this title describes how you can import data from a variety of sources, edit values, compute new variables, rearrange your data table, and manage your results with the results tree. This title is also available online. This title is a useful tool for students and researchers as well as for experienced SAS users who want to learn how to use this convenient interface to widely used statistical, graphical, and reporting techniques.

If you're considering R for statistical computing and data visualization, this book provides a quick and practical guide to just about everything you can do with the open source R language and software environment. You'll learn how to write R functions and use R packages to help you prepare, visualize, and analyze data. Author Joseph Adler illustrates

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each process with a wealth of examples from medicine, business, and sports. Updated for R 2.14 and 2.15, this second edition includes new and expanded chapters on R performance, the ggplot2 data visualization package, and parallel R computing with Hadoop. Get started quickly with an R tutorial and hundreds of examples Explore R syntax, objects, and other language details Find thousands of user-contributed R packages online, including Bioconductor Learn how to use R to prepare data for analysis Visualize your data with R's graphics, lattice, and ggplot2 packages Use R to calculate statistical tests, fit models, and compute probability distributions Speed up intensive computations by writing parallel R programs for Hadoop Get a complete desktop reference to R

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